1 51550/LTR/B600

ABSTRACT OF THE DISCLOSURE

Binary indications are converted to an analog representation with significant reduction in ringing at the transitions between successive binary indications and in the period during each binary indication. The binary indications are disposed in a row-and-column matrix to provide a thermometer code. Each stage of the converter includes a 10 decoder and latch arranged so the decoder inputs settle before the latch is set by the clock pulses. The stages are implemented in complementary CMOS. Complementary transistors are biased so one transistor of the pair is driven to the rail 15 while the other transistor of the pair floats. A dummy CMOS transistor is used to balance the number of transistors in the decoder paths.

LTR/amb

AMB PAS557254.1-*-03/25/04 4:53 PM

25

20

5

30

35